





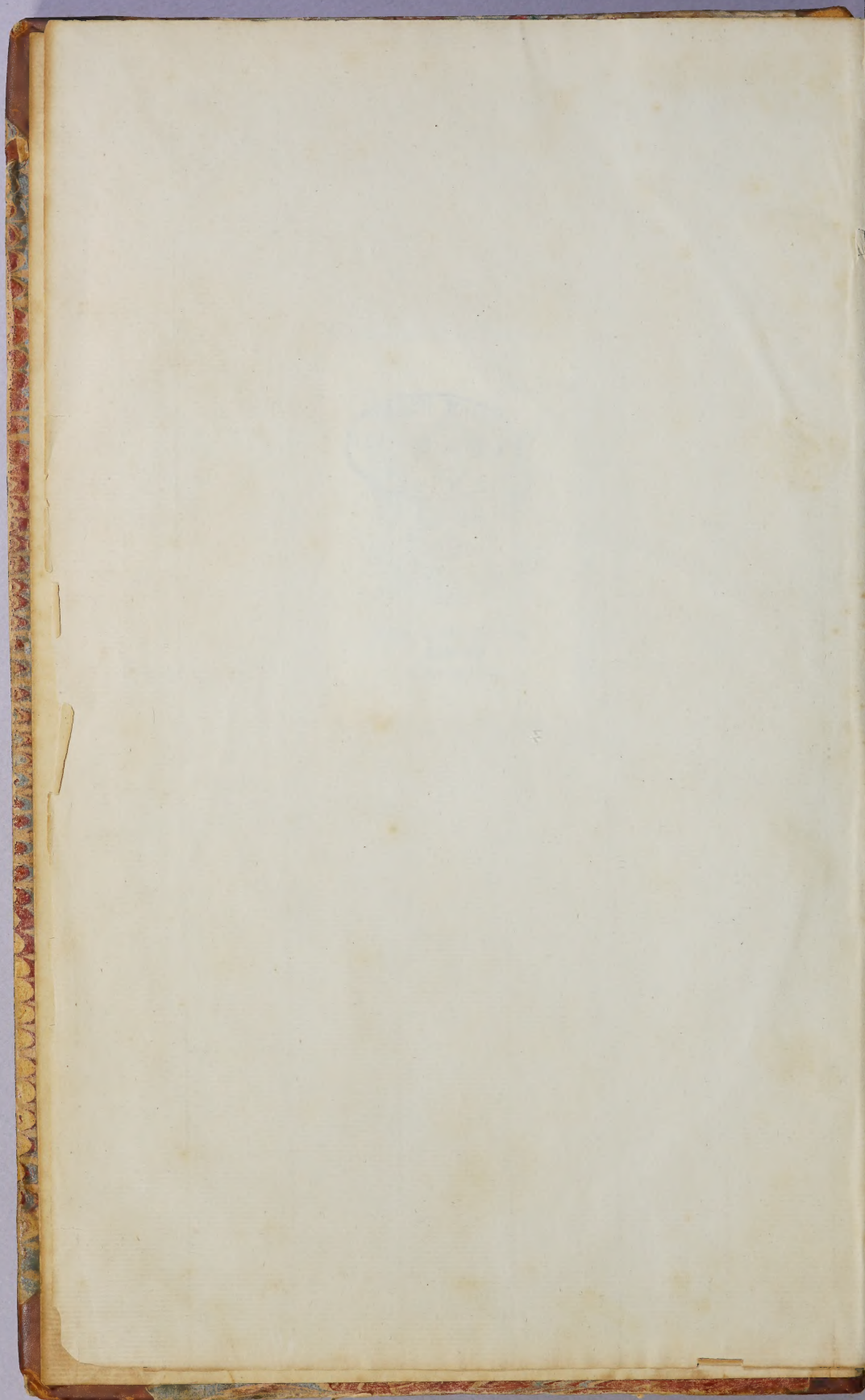
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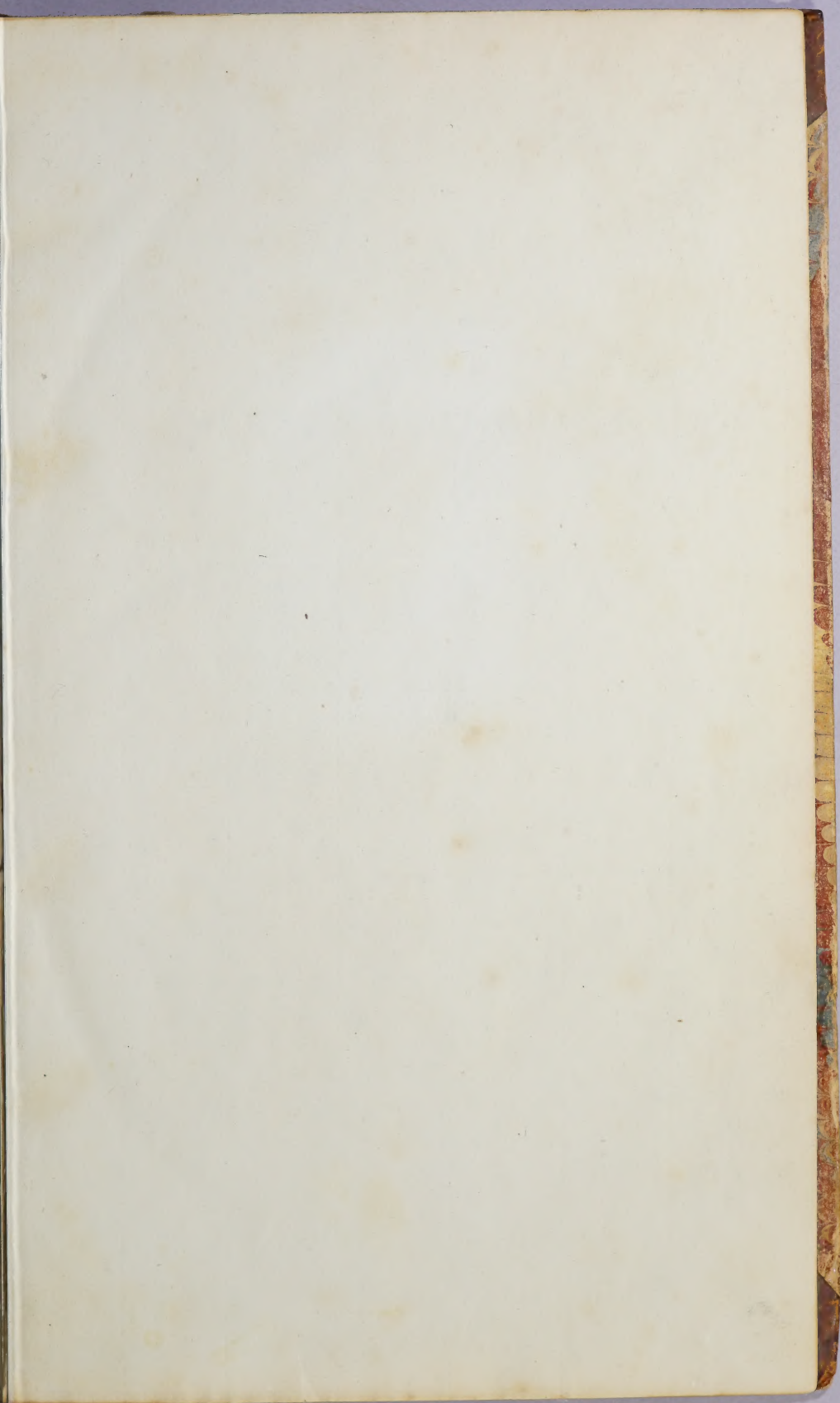


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*Gen. Knox Report on Fortifying the United States*  
*Feb. 28. 1794*

112

Exams.  
 27905

*The COMMITTEE, directed to report on such of the Ports and Harbors of the United States, as require to be put in a State of Defence, with an Estimate of the Expense thereof,*

R E P O R T as their opinion :

**T**HAT the following ports and harbors ought to be put in a state of defence, to wit:—

Portland, in Maine,  
 Portsmouth, in New-Hampshire,  
 Cape-Anne, }  
 Salem, } Massachusetts,  
 Marblehead, }  
 Boston, }  
 Newport, Rhode-Island,  
 New-London,  
 New-York,  
 Philadelphia,  
 Baltimore,  
 Norfolk,  
 Wilmington, North-Carolina,  
 Ocracoke Inlet,  
 Charleston, South-Carolina,  
 Savannah, Georgia.

That, in their opinion, the fortifications ought to be of a nature, to defend the several ports and harbors, against surprize by naval armaments; and that the parapets of the batteries and redoubts should be formed of earth, where circumstances will admit.

That the several places to be fortified, be garrisoned by troops in the pay of the United States.

The estimates submitted herewith, will shew the expense, as well of erecting the fortifications, as for providing the cannon and military stores, and the annual expense of supporting the troops. The number of troops to be employed in each port, is likewise specified.

From these estimates it appears, that the sums necessary to

erect the fortifications, amount to	Dols.	Cts.
	76,053.	52

That it will be necessary to provide two hundred cannon, which, together with their carriages, &c. amount to

	96,645
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Making together	-	172,698. 52
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And that the annual expenses of the troops, necessary to garrison the several fortifications, including pay, subsistence, &c. amount to

	90,349. 25
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It may be proper for the committee to remark, that, in their opinion, it will be necessary, for the security of the United States, to provide the number of cannon above specified, even if the fortifications before mentioned, should not be erected.



*An ESTIMATE of the Probable Expense of Fortifying the following Harbours in the manner specified.*

PORTLAND, (Maine.)

*Twelve heavy cannon.*

	Dols.	Cts.	Dols.	Cts.
The formation of a parapet of earth for twelve pieces	375			
The facing twelve embrasures, at $14\frac{98}{100}$ dollars each	179	76		
The expense of 12 platforms at $25\frac{75}{100}$	309			
A redoubt constructed of a form to be adapted to the nature of the ground to be equal to an hundred feet square	650			
A magazine	200			
Embrafures and platforms for four field pieces	160	52		
A block house or barracks for fifty men	500			
For pickets, palifadoes, and to provide for articles difficult to foresee or enumerate	375			
			2,749	28

PORTSMOUTH, (New-Hampshire.)

*Fifteen pieces.*

A parapet for 15 pieces	468	75		
Embrafures and platforms for 15 pieces at $40\frac{73}{100}$ dollars	609	95		
A redoubt	650			
Embrafures and platforms	160	52		
A magazine	200			
Block-house or barracks	500			
Pickets, pallifadoes, and contingencies	375			
			2,964	22

CAPE-ANN,

*Eight pieces.*

Expense of the construction of the parapet, embrafures, and platforms	573	84		
A block-house	500			
A magazine	200			
Contingencies	150			
			1,423	84

S A L E M,

*Eight pieces.*

The expense the same	1,423	84		
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MARBLEHEAD,

*Eight pieces.*

The expense the same	1,423	84		
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BOSTON, CASTLE-ISLAND,

*Thirty-six pieces.*

To put the works in order estimated at	6,000			
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GOVERNOR'S ISLAND,

*Twelve pieces.*

The same as at Portland	2,749	28		
			13,020	80

NEWPORT,

Four pieces on travelling carriages, so that no battery may be necessary to be erected.

Carried forward			18,734	30
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	Dols.	Cts.	Dols.	Cts.
Brought forward	-	-	18,734	30
<b>GOAT-ISLAND,</b>				
<i>Twenty pieces.</i>				
To put the works in order	-	-	3,000	

<b>NEW-LONDON,</b>				
<i>Twelve pieces.</i>				
The same as at Portland	-	-	2,749	28

<b>GROTON,</b>				
<i>Twelve pieces.</i>				
The same as at Portland	-	-	2,749	28
			<u>5,498</u>	56

<b>NEW-YORK, GOVERNOR'S ISLAND,</b>				
<i>Twenty-four pieces.</i>				
The expence of constructing batteries, embraasures and platforms for 24 pieces	-	-	1,727	52
A redoubt with embraasures	-	-	810	
Magazine	-	-	200	
Block-house or barracks	-	-	500	
Contingencies	-	-	500	
			<u>3,737</u>	52

<b>PAULUS-HOOK,</b>				
<i>Sixteen pieces.</i>				
Parapets, embraasures, and platforms for batteries of 16 pieces	-	-	1,151	68
Redoubt	-	-	650	
Four embraasures, and platforms for ditto	-	-	160	
A magazine	-	-	200	
A block-house	-	-	500	
Non-enumerated articles and contingencies	-	-	500	
			<u>3,161</u>	68

<b>NEW-YORK,</b>				
Batteries for several parts of the city for 42 pieces	-	-	1,312	50
The expence of the materials and executing platforms and embraasures for 42 pieces at 40. $\frac{22}{100}$	-	-	1,710	66
Three magazines	-	-	600	
Two block-houses or other buildings equal thereto	-	-	1,000	
Contingencies	-	-	1,000	
			<u>5,623</u>	16
				12,522. 36

Twenty of these pieces may be on travelling carriages, so as to be moved as circumstances might require.

<b>THE DELAWARE, MUD-ISLAND,</b>				
<i>Forty-eight Pieces.</i>				
In order to complete the present works for 48 pieces, and a garrison of fifty men	-	-	8,737	94
Carried forward	-	-	48,493	16

## BALTIMORE,

Brought forward - - 48,493.16

*Twenty-eight Pieces.*

Parapets, embrasures, and platforms for batteries, for	
28 pieces - - - - -	2,015.44
A redoubt with four embrasures - - - - -	810
Two magazines - - - - -	400
Block-house or barracks - - - - -	500
Contingencies - - - - -	500

4,225.44

## NORFOLK,

*Twenty-four Pieces.*

Batteries, embrasures, and platforms - - - - -	1,727.58
Redoubt with embrasures - - - - -	810
A magazine - - - - -	200
Block-house or barracks - - - - -	500
Contingencies - - - - -	500

3,737.58

## WILMINGTON,

*Twelve Pieces.*

Batteries, embrasures, and platforms, for 12 pieces - - - - -	863.76
Redoubt with embrasures - - - - -	810
Magazine - - - - -	200
Block-house or barracks - - - - -	500
Contingencies - - - - -	500

2,873.76

## OCRACOE,

*Eight Pieces.*

Batteries for 8 pieces, embrasures, &c. - - - - -	573.84
Magazine - - - - -	200
Block-house or barracks - - - - -	500
Contingencies - - - - -	500

1,773.84

4,647.60

## CHARLESTON,

To be fortified with 72 pieces, which may be divided	
into three sets of batteries and redoubts - - - - -	11,212.32

## SAVANNAH,

The same works and expense as for Norfolk - - - - -	3,737.52
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Total amount dollars - - 76,053.62



*The number of Cannon required for the before mentioned Places, to wit:*

Portland	-	-	-	-	-	12
Portsmouth	-	-	-	-	-	15
Cape-Ann	-	-	-	-	-	8
Salem	-	-	-	-	-	8
Marblehead	-	-	-	-	-	8
Boston,						
Castle-Island	-	-	-	-	-	36
Governor's-Island	-	-	-	-	-	12
						<hr/> 48
Newport	-	-	-	-	-	24
New-London and Groton	-	-	-	-	-	24
New-York and its dependencies	-	-	-	-	-	82
The Delaware	-	-	-	-	-	48
Baltimore	-	-	-	-	-	28
Norfolk	-	-	-	-	-	24
Wilmington, North-Carolina	-	-	-	-	-	12
Ocracoke	-	-	-	-	-	8
Charleston	-	-	-	-	-	72
Savannah	-	-	-	-	-	24
						<hr/> 445

The number which might be furnished from the public arsenals	-	150
Supposed may be furnished by the respective states, and which would require to be new mounted	-	150
Deficient	-	145
		<hr/> 445

But as the precise number of those which are supposed may be furnished by the respective states, are uncertain, it would seem most prudent to have cast 200 heavy pieces, of the calibre 24 and 36 pounders.

An estimate of the expense of one hundred twenty-four pound cannon, each weighing two tons, 200 tons at 80 dollars	-	Dols. Cts.	16,000
100 of the calibre of cannon of 36 pounders, at 3 tons, 300 tons, at 80 dollars	-		24,000
200 garrison carriages and implements for the said cannon, at 60 dollars	-		12,000
150 carriages and implements for the cannon supposed to be furnished by the respective states, at 50 dollars	-		7,500
The expense of mounting the 150 cannon proposed to be furnished from the public arsenals, are already included in the general estimate of the war department for the year 1794.	-		
200 tons of twenty-four pound ball, at 40 dollars	-		8,000
360 tons of thirty-six pound ball, at 40 dollars	-		14,400
The expense of powder, is not estimated, as a considerable quantity is in possession of the public, as will appear by the returns.	-		
			<hr/>

Carried forward - - 81,900

B

	<i>Brought forward</i>	<i>Dols. Cts.</i>
For paper for cartridges, flow-match, port-fires, drag-ropes, carriages to move the cannon from place to place, and all contingencies relatively to the artillery	- - -	81,900
For transportation of the cannon and shot from the public arsenals, and also from the furnaces where they may be cast, to the several fortifications stated in the foregoing estimate	- - -	6,000
Four engineers, to be employed six months to construct and direct the works, with the pay, subsistence, and forage, of lieutenant-colonels commandant	- - -	2,745
		<u>96,645</u>

## SUMMARY of the Foregoing ESTIMATES.

Fortifying the several enumerated harbours	76,053. 62
Expense of 200 battering cannon, to be purchased, with cartridges and implements, ball, transportation of cannon and ball, pay, &c. of engineers, and all other contingencies relative to the artillery	96,645
Total amount, dollars	<u>172,698. 62</u>

*An Estimate of the Number of Troops required as the Ordinary protection of the aforesaid fortifications.*

	<i>Capt.</i>	<i>Sub.</i>	<i>Serj.</i>	<i>Corp.</i>	<i>Muf.</i>	<i>Priv.</i>
Portland	—	1	1	2	2	17
Portsmouth	—	1	1	2	2	17
Cape-Ann	—	1	1	2	2	17
Salem,	—	1	1	2	2	17
Marblehead	—	1	1	2	2	17
Boston, Governor's Island	—	1	1	2	2	17
Castle	—	1	1	2	2	24
Newport	—	1	2	2	2	24
New-London	—	1	1	1	2	17
Groton	—	1	1	1	2	17
New-York	—	1	2	6	6	81
Delaware	—	1	2	6	6	81
Baltimore	—	1	2	2	2	24
Norfolk	—	1	2	2	2	24
Wilmington	—	1	1	1	2	17
Ocracoke	—	1	1	2	2	34
South-Carolina	—	1	2	6	6	81
Savannah	—	1	2	2	2	24
To act as inspectors to be constantly employed in visiting the posts.	Majors 2					
	2	5	21	39	45	550



If the several works should be garrisoned in ordinary by a part of the legion of the United States, now in service, the expense is already calculated in the general estimate of the war department for the year 1794. But in order to have references thereto, the expense of the number of troops proposed, is here specified.

It will not escape notice, that the proposed troops are not artillery, but infantry. It is however supposed, that some of the artillery officers in service, might be used on the present occasion, and that part of the infantry officers might be chosen for the purpose, who would soon acquire a tolerable degree of knowledge in the use of cannon.

*Estimate of the expenses of the number of troops to be posted in the aforementioned works, as their ordinary protection—for twelve months.*

P A Y.	Dols.	Dols. Cts.
2 Majors, to act as Inspectors, &c. at 50 per month,	100	1,200
5 Captains - - - - - 40 - - -	200	2,400
11 Lieutenants - - - - - 26 - - -	286	3,432
10 Ensigns - - - - - 20 - - -	200	2,400
39 Serjeants - - - - - 6 - - -	234	2,808
45 Corporals - - - - - 5 - - -	239	2,700
36 Music - - - - - 4 - - -	172	1,728
550 Privates - - - - - 3 - - -	1650	19,800
		<u>36,468</u>

#### SUBSISTENCE.

2 Majors - - - - - 4 rations per day	2,920
5 Captains - - - - - 3 - - -	5,475
11 Lieutenants - - - - - 2 - - -	8,030
10 Ensigns - - - - - 2 - - -	7,300
670 Non-commissioned and privates - - - - - 1 - - -	244,550
	<u>268,275</u>

268,275 Rations at 15 cents per ration - - - 40,241. 25

#### FORAGE.

2 Majors, at 10 dollars per month - - - 240

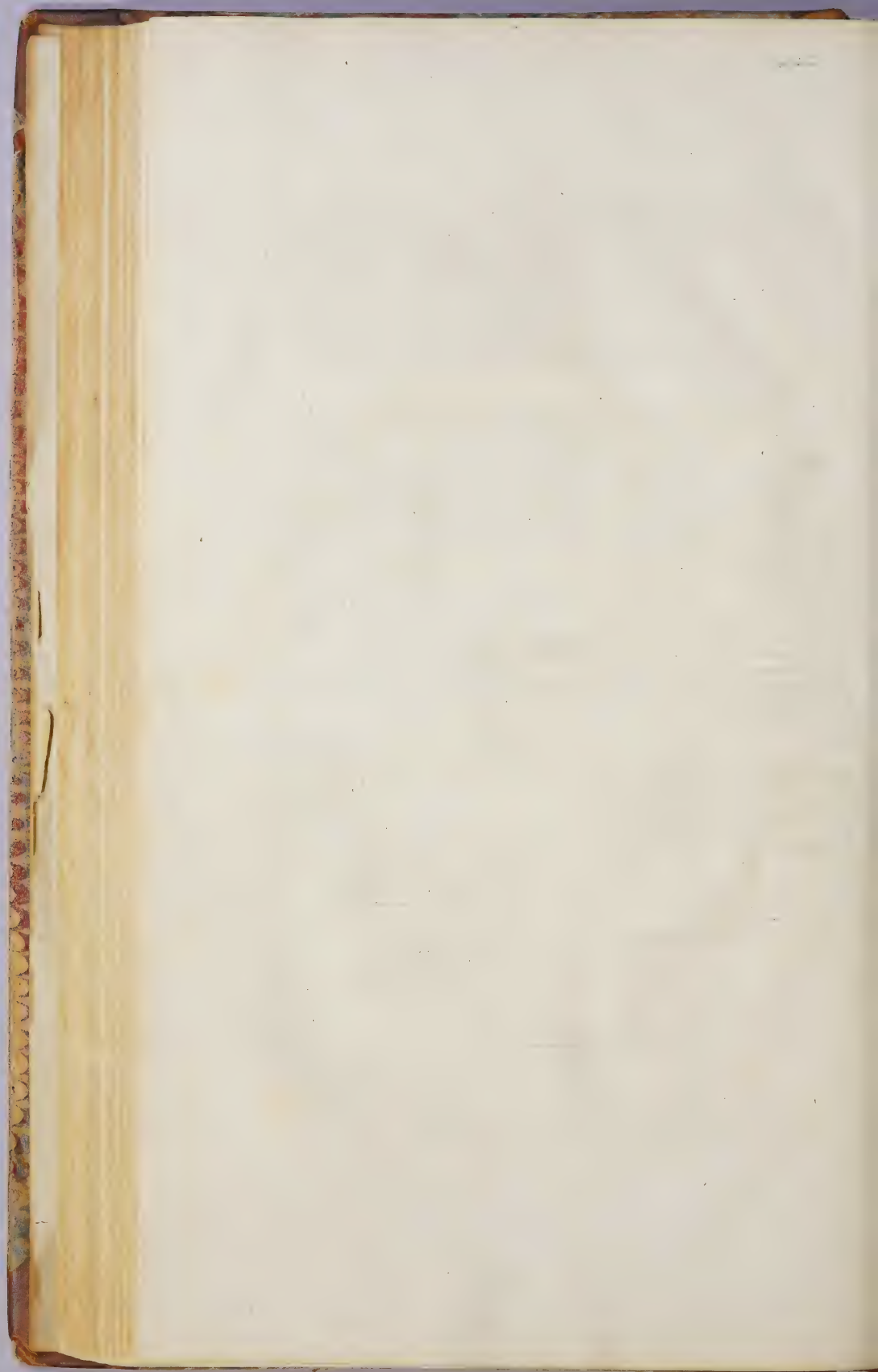
#### CLOTHING.

670 Suits, at 20 dollars per suit - - - 13,400

Dollars 90,349. 25

WAR DEPARTMENT,  
February 28, 1794.

H. KNOX,  
Secretary of War.

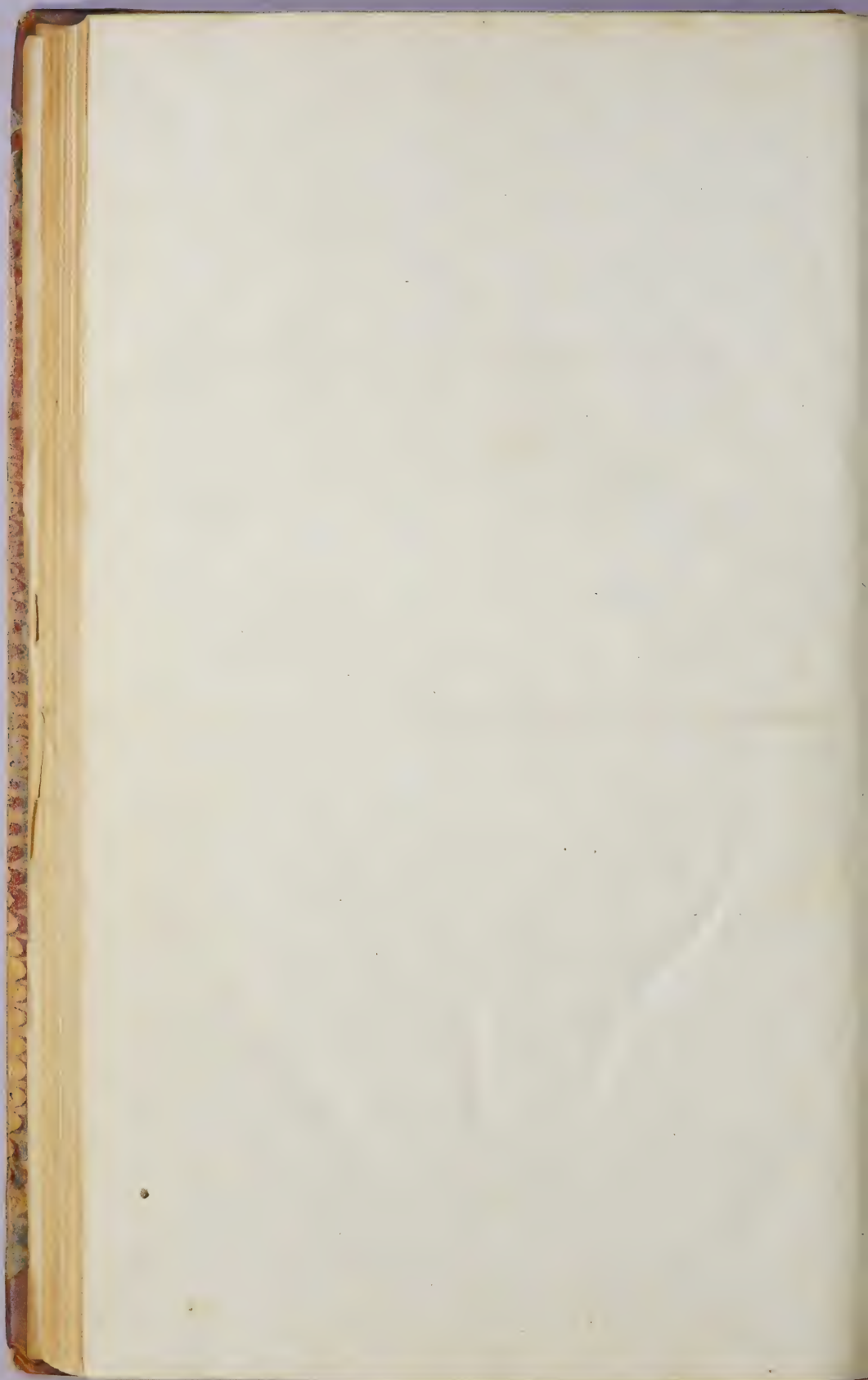




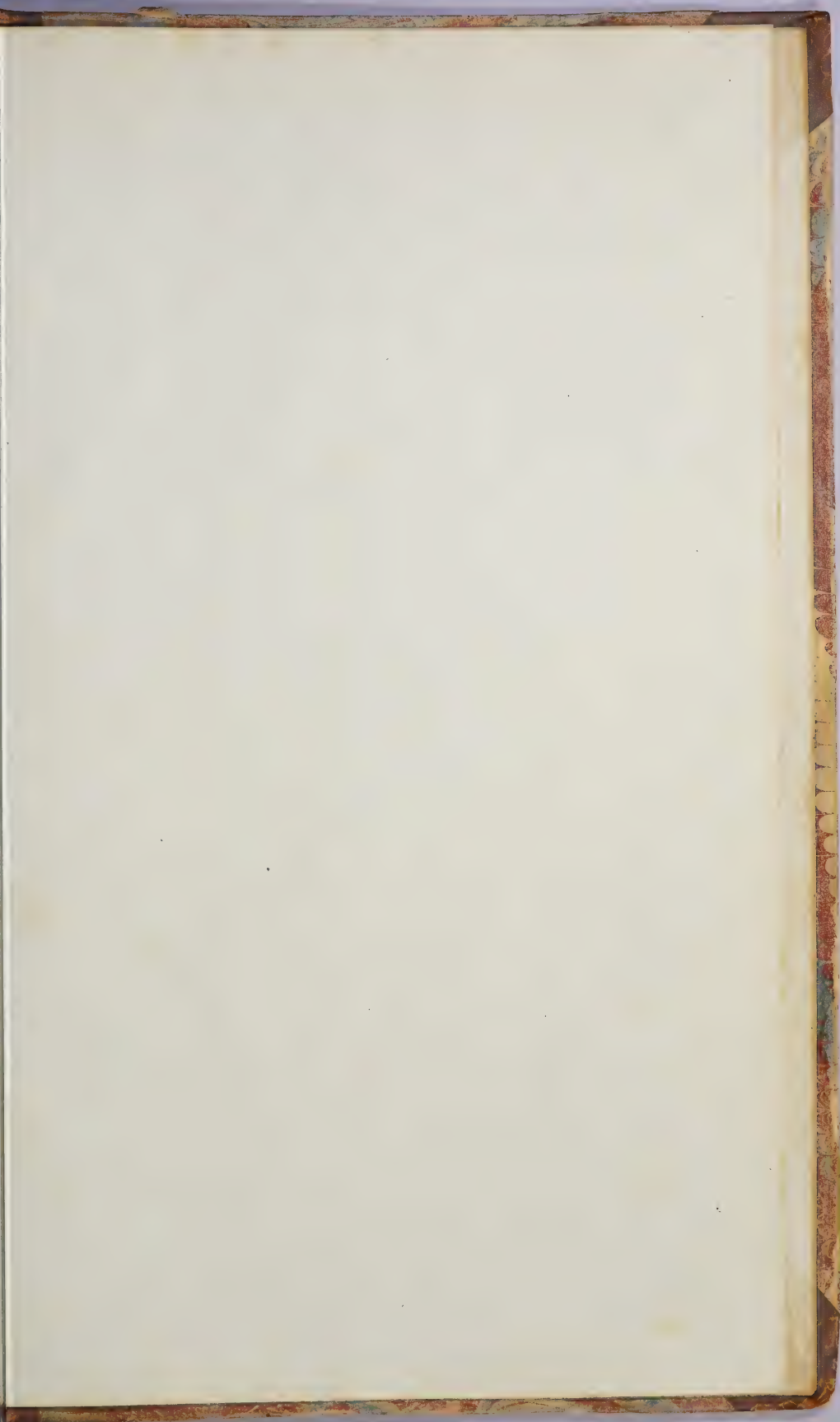
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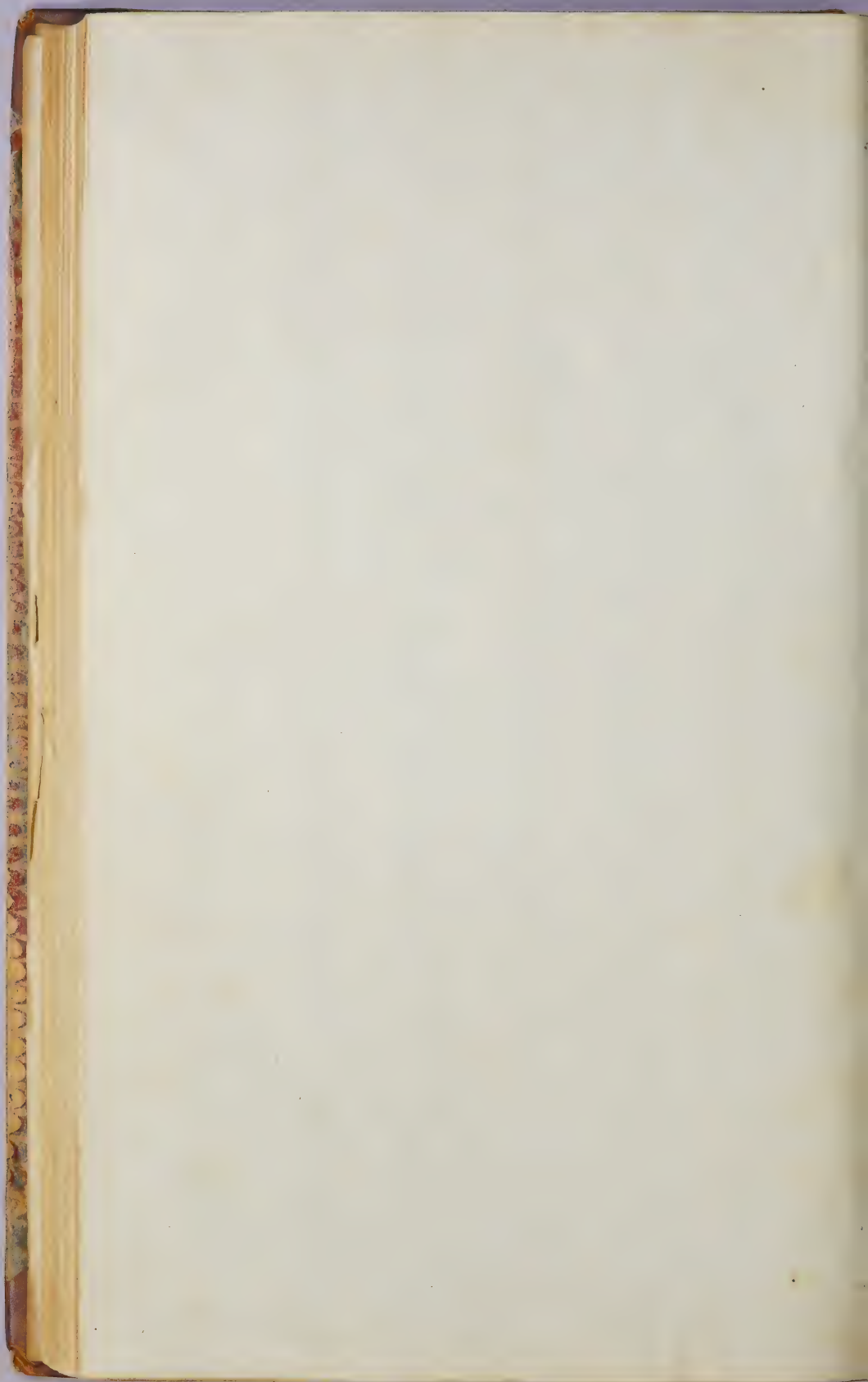
Evans 1794

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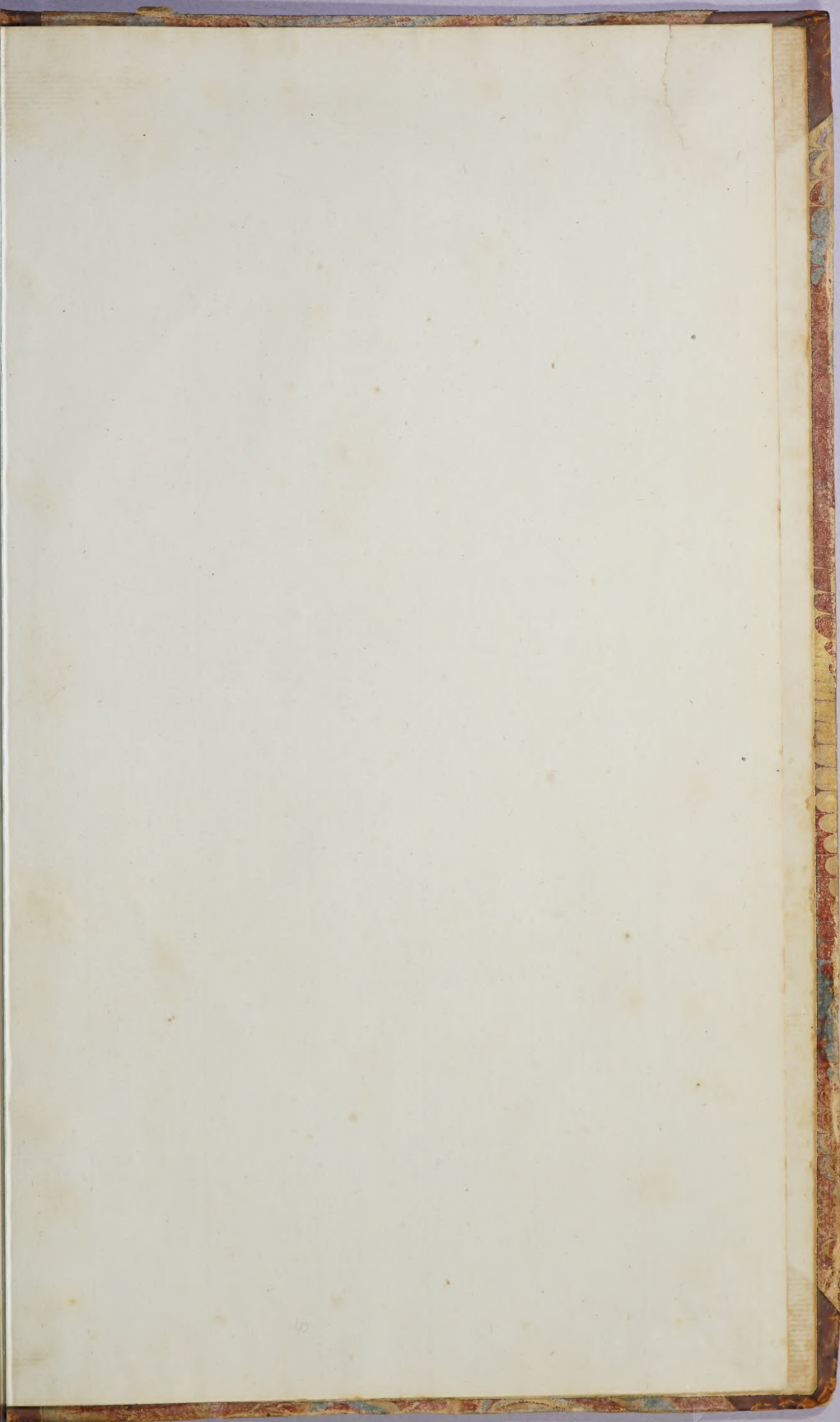


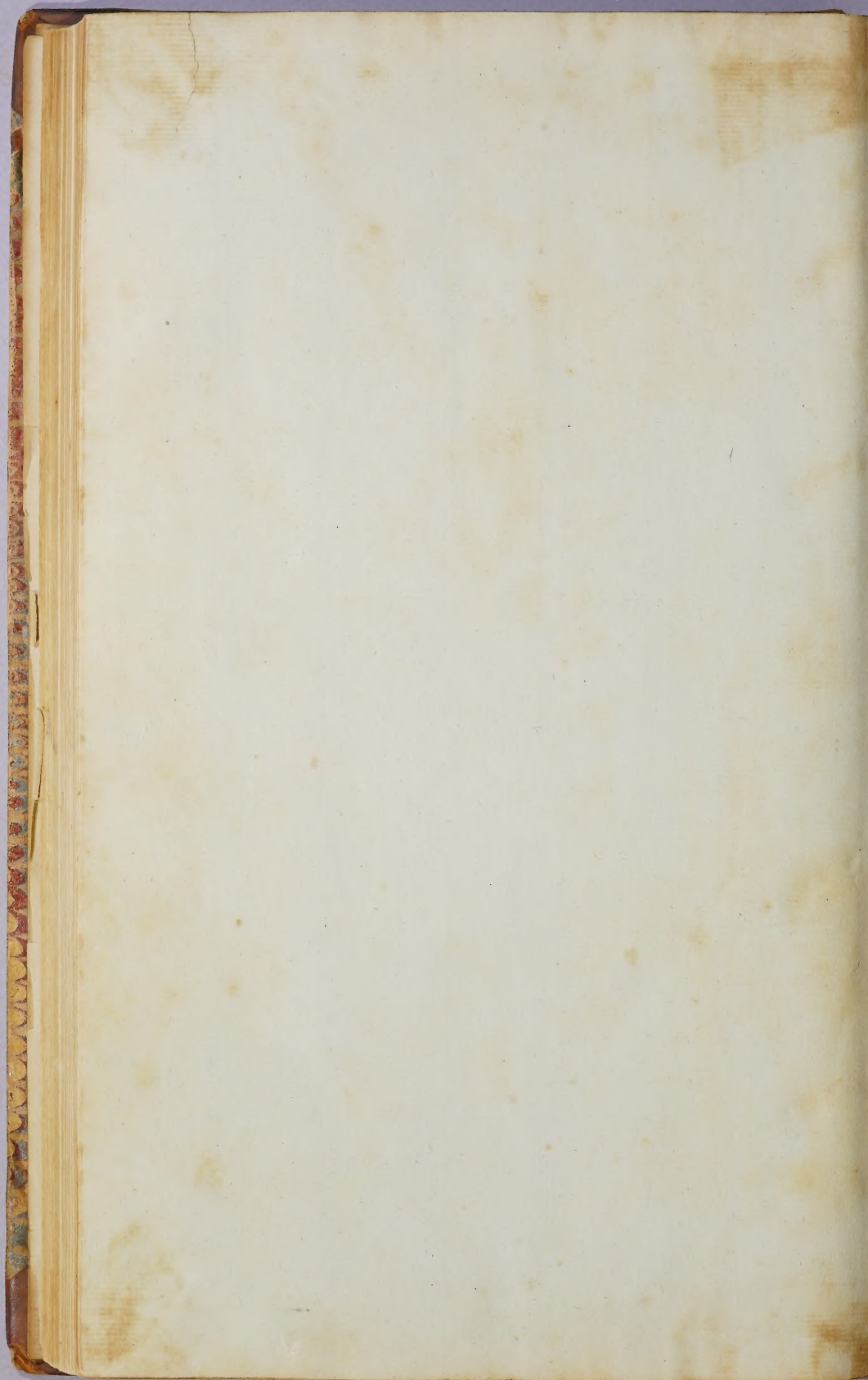














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